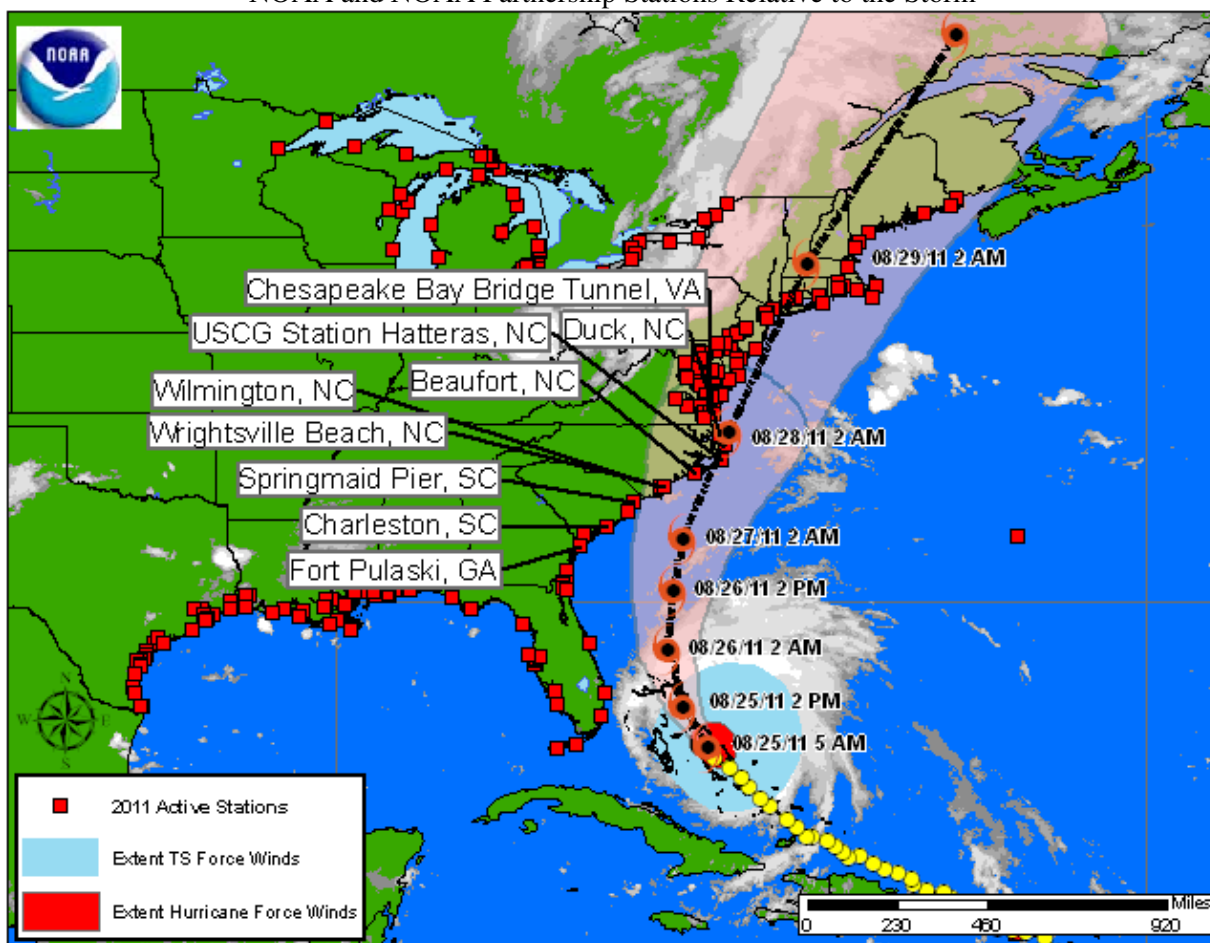




Hurricane IRENE QuickLook
Posted: 07:00 EDT 08/25/2011

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/25/2011 07:00 EDT, water levels along the eastern the U.S. are at or near predicted levels. Winds range from 5 to 15 knots with gusts as high as 20 knots. Barometric pressure is steady along the coast.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Fort Pulaski, GA: Next predicted high tides are 7.7 ft (2.34 m) at 08/25/2011 17:41 EDT and 6.7 ft (2.08 m) at 08/26/2011 06:06 EDT.

Charleston, SC: Next predicted high tides are 6.0 ft (1.82 m) at 08/25/2011 17:34 EDT and 5.1 ft (1.58 m) at 08/26/2011 05:56 EDT.

Springmaid Pier, SC: Next predicted high tides are 5.7 ft (1.74 m) at 08/25/2011 16:57 EDT and 4.9 ft (1.51

m) at 08/26/2011 05:27 EDT.

Wrightsville Beach, NC: Next predicted high tides are 4.5 ft (1.36 m) at 08/25/2011 17:06 EDT and 3.8 ft (1.16 m) at 08/26/2011 05:30 EDT.

Wilmington, NC: Next predicted high tides are 4.6 ft (1.40 m) at 08/25/2011 19:22 EDT and 4.2 ft (1.28 m) at 08/26/2011 07:44 EDT.

Beaufort, NC: Next predicted high tides are 3.6 ft (1.10 m) at 08/25/2011 17:36 EDT and 3.0 ft (0.93 m) at 08/26/2011 05:52 EDT.

USCG Station Hatteras, NC: Next predicted high tides are 0.5 ft (0.15 m) at 08/25/2011 18:53 EDT and 0.5 ft (0.15 m) at 08/26/2011 06:53 EDT.

Duck, NC: Next predicted high tides are 3.8 ft (1.16 m) at 08/25/2011 17:02 EDT and 3.2 ft (0.98 m) at 08/26/2011 05:30 EDT.

Chesapeake Bay Bridge Tunnel, VA: Next predicted high tides are 3.0 ft (0.90 m) at 08/25/2011 17:54 EDT and 2.6 ft (0.79 m) at 08/26/2011 06:19 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website.

For information on Highest Astronomical Tide (HAT), NAVD88 and other datums, please see Tidal Datums.

For more information or archived products and reports, please see the [Storm QuickLook Homepage](#).

SELECT NATIONAL HURRICANE CENTER (NHC) ADVISORY INFORMATION:

HURRICANE IRENE ADVISORY NUMBER 20
500 AM EDT THU AUG 25 2011

...HURRICANE AND TROPICAL STORM WATCHES ISSUED FOR A PORTION OF THE U.S. EAST COAST...

WATCHES AND WARNINGS

A HURRICANE WATCH IS IN EFFECT FOR...

* NORTH OF SURF CITY NORTH CAROLINA TO THE NORTH CAROLINA-VIRGINIA BORDER INCLUDING THE PAMLICO...ALBEMARLE...AND CURRITUCK SOUNDS

A TROPICAL STORM WATCH IS IN EFFECT FOR...

* NORTH OF EDISTO BEACH SOUTH CAROLINA TO SURF CITY NORTH CAROLINA

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED STATES...PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 500 AM EDT THE CENTER OF HURRICANE IRENE WAS LOCATED ABOUT 80 MI ESE OF NASSAU and 735 MI S OF CAPE HATTERAS NORTH

CAROLINA. IRENE IS MOVING TOWARD THE NORTHWEST NEAR 12. A TURN TOWARD THE NORTH-NORTHWEST IS EXPECTED TODAY...FOLLOWED BY A TURN TOWARD THE NORTH BY EARLY FRIDAY. ON THE FORECAST TRACK...THE CORE OF THE HURRICANE WILL PASS WELL OFFSHORE OF THE EAST COAST OF CENTRAL AND NORTH FLORIDA TONIGHT AND EARLY FRIDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 115 MPH WITH HIGHER GUSTS. IRENE IS A CATEGORY THREE HURRICANE ON THE SAFFIR-SIMPSON HURRICANE WIND SCALE. SOME STRENGTHENING IS EXPECTED TODAY AND TONIGHT.

IRENE IS A LARGE TROPICAL CYCLONE. HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 70 MILES FROM THE CENTER AND TROPICAL-STORM-FORCE WINDS EXTEND OUTWARD UP TO 255 MILES.

THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 950 MB.

HAZARDS AFFECTING LAND

STORM SURGE...IN AREAS OF ONSHORE WINDS NEAR THE CENTER OF IRENE...AN EXTREMELY DANGEROUS STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 7 TO 11 FEET ABOVE NORMAL TIDE LEVELS. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE AND DANGEROUS WAVES.

SURF...SWELLS GENERATED BY IRENE WILL BEGIN AFFECTING PORTIONS OF THE COAST OF THE SOUTHEASTERN UNITED STATES TODAY. THESE SWELLS ARE EXPECTED TO CAUSE LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS.

PLEASE CONSULT PRODUCTS FROM YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.

FORECASTER PASCH/KIMBERLAIN

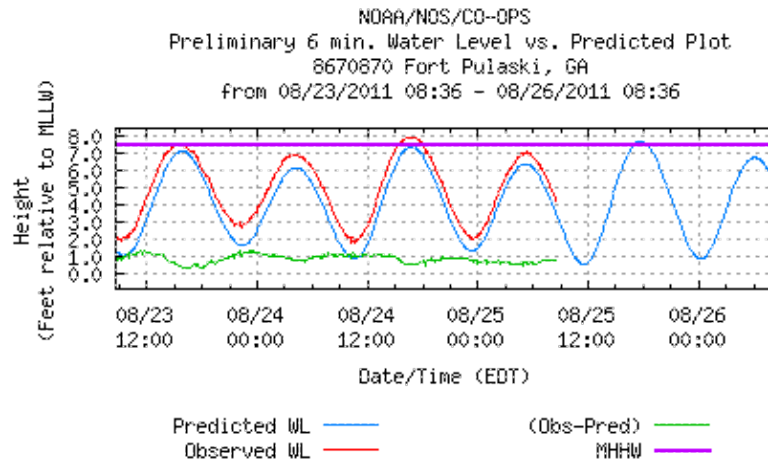
For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Fort Pulaski - Water Level](#), [Fort Pulaski - Air/Water Temp](#), [Fort Pulaski - Winds](#), [Fort Pulaski - Barometric](#), [Charleston - Water Level](#), [Charleston - Air/Water Temp](#), [Charleston - Winds](#), [Charleston - Barometric](#), [Springmaid Pier - Water Level](#), [Springmaid Pier - Air/Water Temp](#), [Springmaid Pier - Winds](#), [Springmaid Pier - Barometric](#), [Wilmington - Water Level](#), [Wilmington - Air/Water Temp](#), [Wrightsville Beach - Winds](#), [Wilmington - Barometric](#), [Beaufort - Water Level](#), [Beaufort - Air/Water Temp](#), [Beaufort - Winds](#), [Beaufort - Barometric](#), [USCG Station Hatteras - Water Level](#), [USCG Station Hatteras - Air/Water Temp](#), [USCG Station Hatteras - Winds](#), [USCG Station Hatteras - Barometric](#), [Duck - Water Level](#), [Duck - Air/Water Temp](#), [Duck - Winds](#), [Duck - Barometric](#), [Chesapeake Bay Bridge Tunnel - Water Level](#), [Chesapeake Bay](#)

Hurricane IRENE QuickLook, POSTED 07:00 EDT 08/25/2011

Bridge Tunnel - Air/Water Temp, Chesapeake Bay Bridge Tunnel - Winds, Chesapeake Bay Bridge Tunnel -
Barometric,

[Fort Pulaski, GA - Return to List](#)

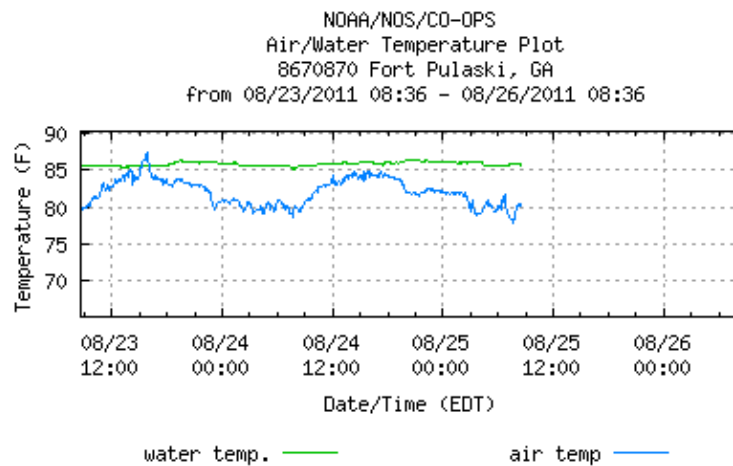


Last Observed Sample: 08/25/2011 08:30 (EDT)

Relative to MLLW: **Observed: 4.27 ft. Predicted: 3.48 ft. Residual: 0.79 ft.**

Historical Maximum Water Level: Oct 15 1947, 3.4 ft. above MHHW

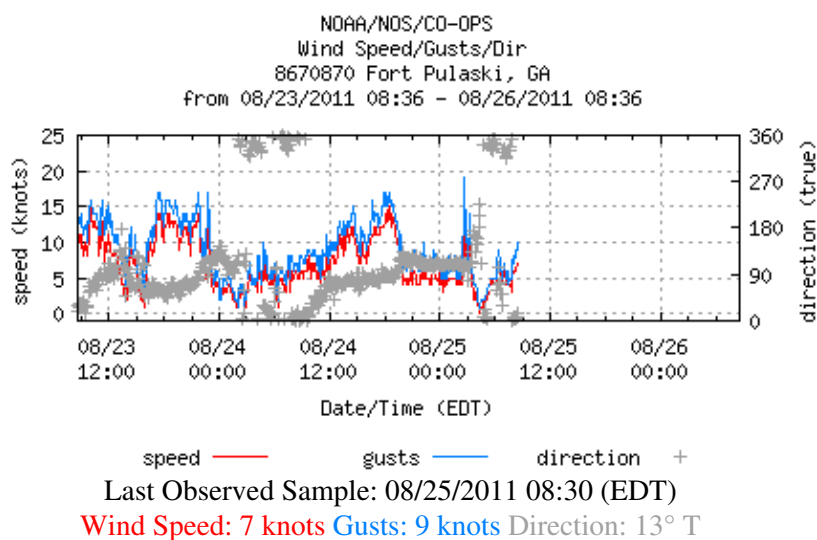
[Fort Pulaski, GA - Return to List](#)



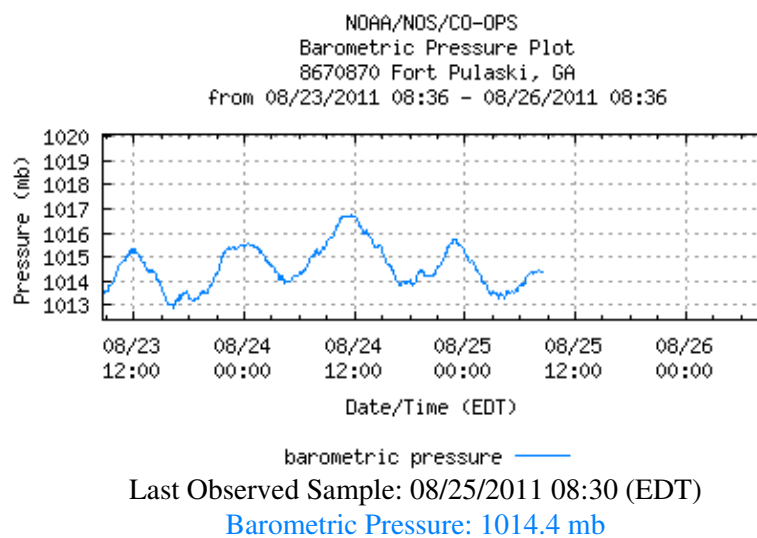
Last Observed Sample: 08/25/2011 08:30 (EDT)

Water Temperature: 85.6° F Air Temperature: 80.4° F

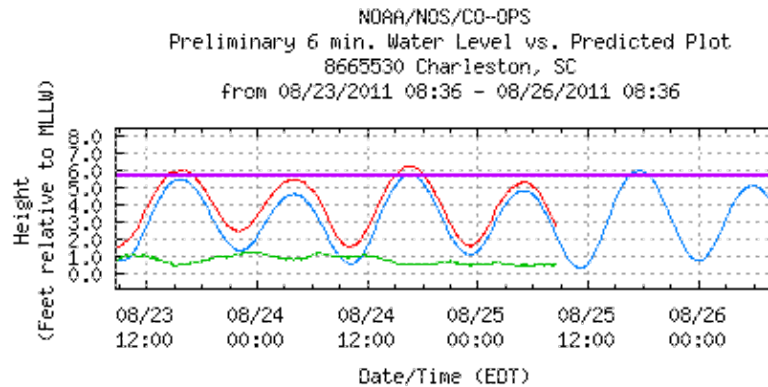
Fort Pulaski, GA - Return to List



Fort Pulaski, GA - Return to List



[Charleston, SC - Return to List](#)



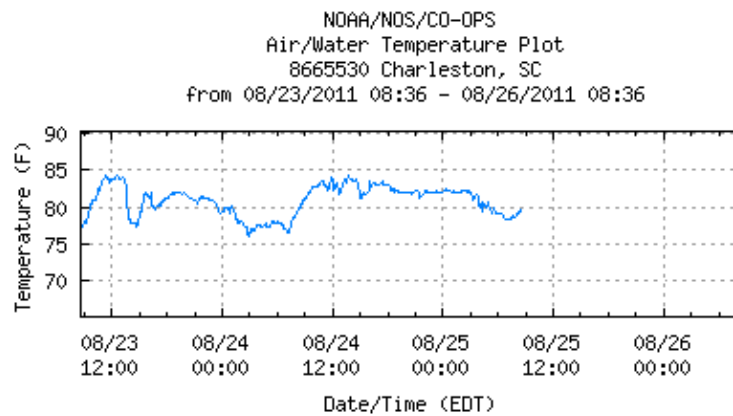
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/25/2011 08:30 (EDT)

Relative to MLLW: **Observed: 2.79 ft. Predicted: 2.25 ft. Residual: 0.54 ft.**

Historical Maximum Water Level: Sep 21 1989, 6.76 ft. above MHHW

[Charleston, SC - Return to List](#)

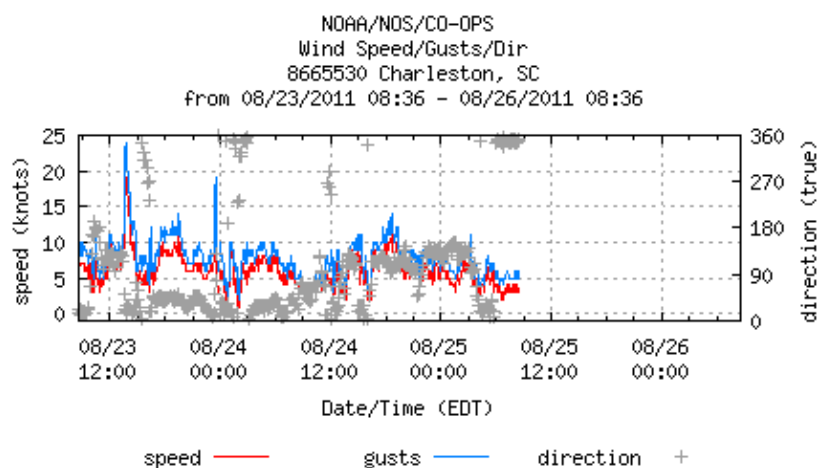


water temp. — air temp —

Last Observed Sample: 08/25/2011 08:30 (EDT)

Water Temperature: n/a Air Temperature: 79.7° F

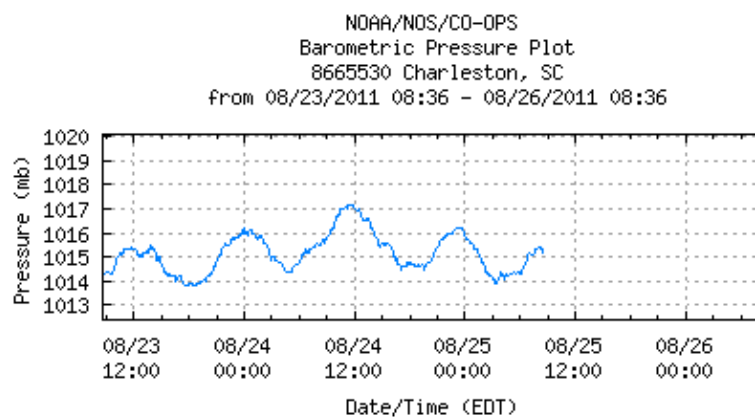
[Charleston, SC - Return to List](#)



Last Observed Sample: 08/25/2011 08:30 (EDT)

Wind Speed: 3 knots Gusts: 5 knots Direction: 353° T

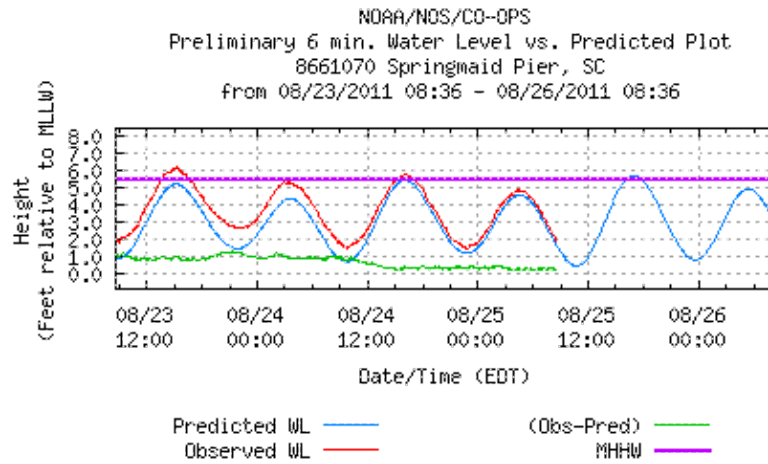
[Charleston, SC - Return to List](#)



Last Observed Sample: 08/25/2011 08:30 (EDT)

Barometric Pressure: 1015.2 mb

[Springmaid Pier, SC - Return to List](#)

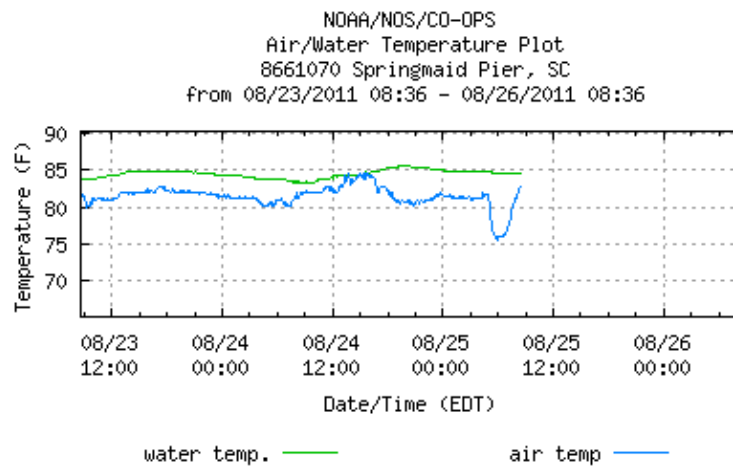


Last Observed Sample: 08/25/2011 08:30 (EDT)

Relative to MLLW: **Observed: 1.94 ft. Predicted: 1.70 ft. Residual: 0.24 ft.**

Historical Maximum Water Level: Jan 1 1987, 3.65 ft. above MHHW

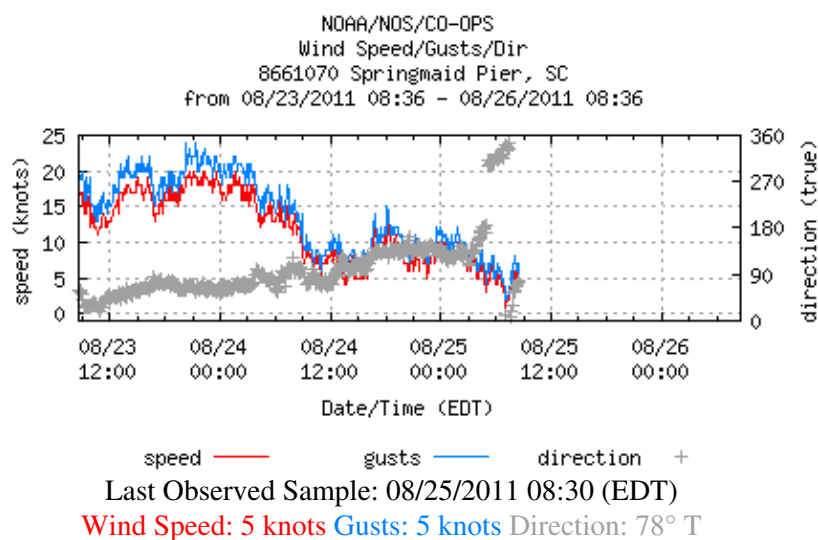
[Springmaid Pier, SC - Return to List](#)



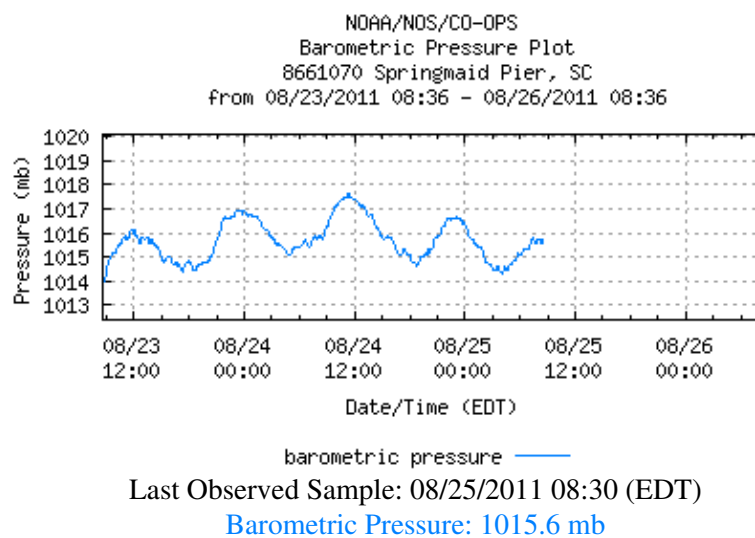
Last Observed Sample: 08/25/2011 08:30 (EDT)

Water Temperature: 84.6° F Air Temperature: 82.8° F

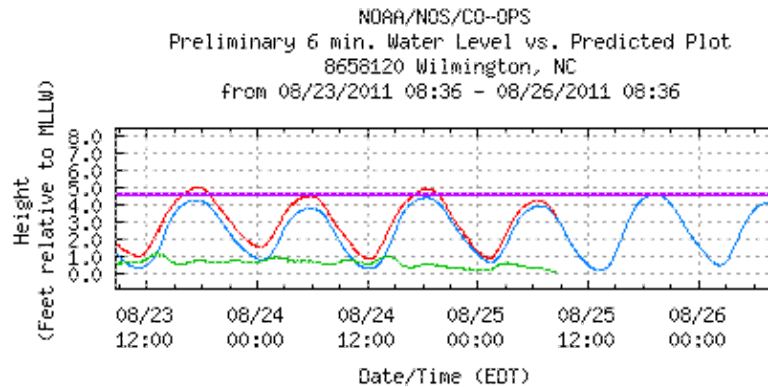
[Springmaid Pier, SC - Return to List](#)



[Springmaid Pier, SC - Return to List](#)



Wilmington, NC - Return to List



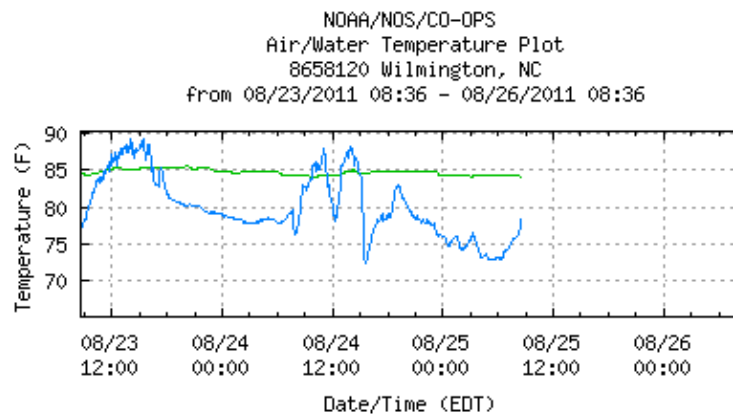
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/25/2011 08:30 (EDT)

Relative to MLLW: **Observed: 3.37 ft.** **Predicted: 3.27 ft.** **Residual: 0.10 ft.**

Historical Maximum Water Level: Oct 15 1954, 3.47 ft. above MHHW

Wilmington, NC - Return to List

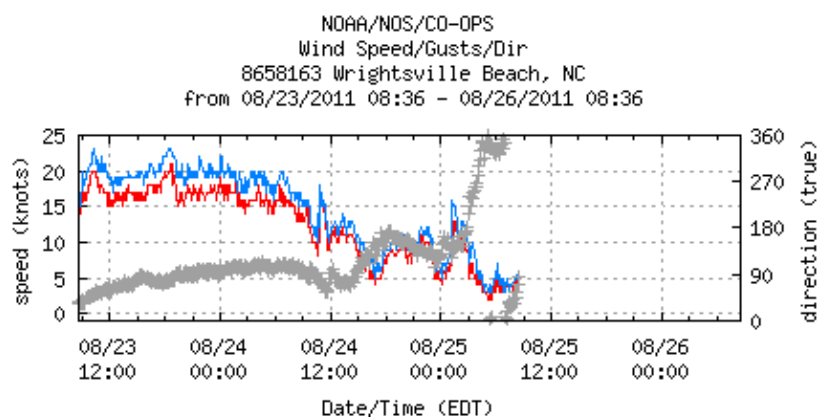


water temp. — air temp —

Last Observed Sample: 08/25/2011 08:30 (EDT)

Water Temperature: 84.0° F **Air Temperature: 78.3° F**

Wrightsville Beach, NC - Return to List

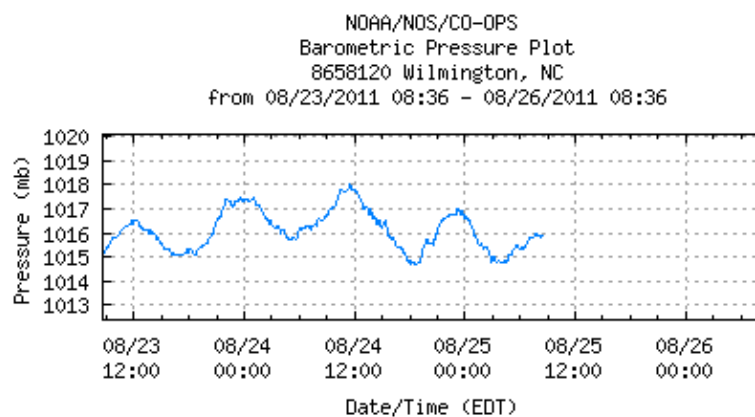


speed — gusts — direction +

Last Observed Sample: 08/25/2011 08:30 (EDT)

Wind Speed: 5 knots Gusts: 6 knots Direction: 84° T

Wilmington, NC - Return to List

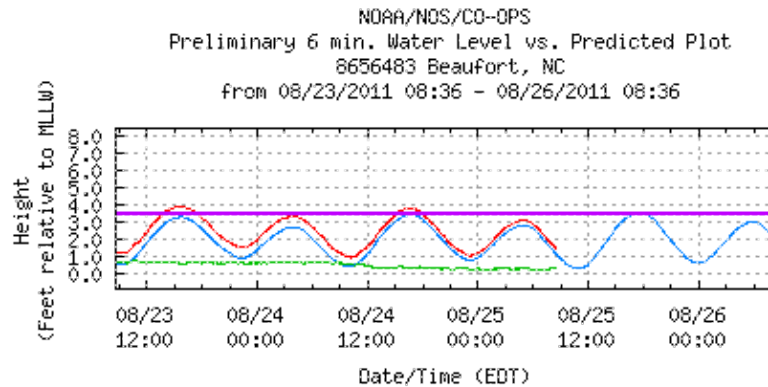


barometric pressure —

Last Observed Sample: 08/25/2011 08:30 (EDT)

Barometric Pressure: 1015.9 mb

Beaufort, NC - Return to List



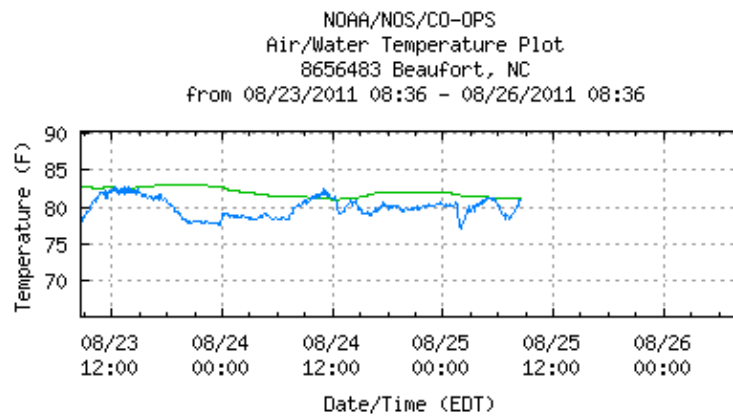
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/25/2011 08:30 (EDT)

Relative to MLLW: **Observed: 1.47 ft. Predicted: 1.15 ft. Residual: 0.32 ft.**

Historical Maximum Water Level: Sep 16 1999, 2.74 ft. above MHHW

Beaufort, NC - Return to List

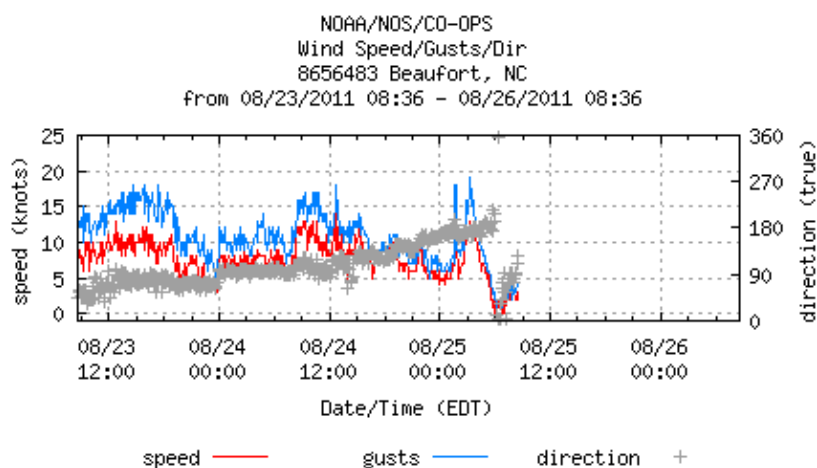


water temp. — air temp —

Last Observed Sample: 08/25/2011 08:30 (EDT)

Water Temperature: 81.3° F Air Temperature: 81.0° F

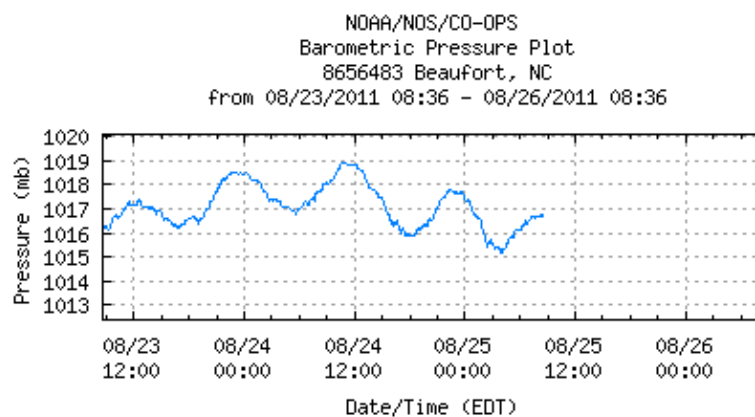
[Beaufort, NC - Return to List](#)



Last Observed Sample: 08/25/2011 08:30 (EDT)

Wind Speed: 3 knots Gusts: 4 knots Direction: 127° T

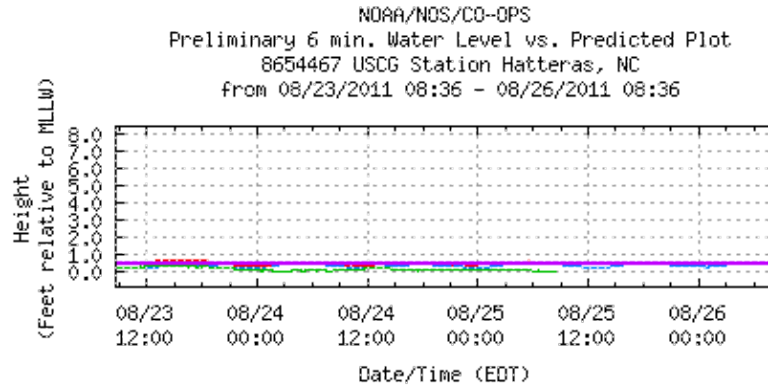
[Beaufort, NC - Return to List](#)



Last Observed Sample: 08/25/2011 08:30 (EDT)

Barometric Pressure: 1016.8 mb

USCG Station Hatteras, NC - Return to List



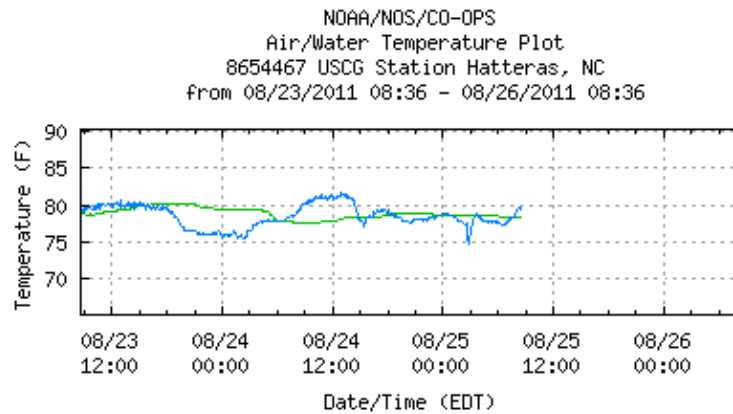
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/25/2011 08:30 (EDT)

Relative to MLLW: **Observed: 0.42 ft. Predicted: 0.41 ft. Residual: 0.01 ft.**

Historical Maximum Water Level: , 0 ft. above MHHW

USCG Station Hatteras, NC - Return to List

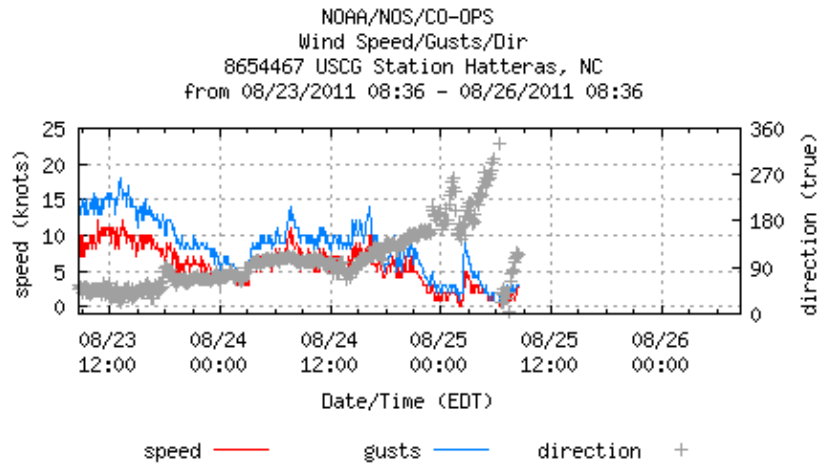


water temp. — air temp —

Last Observed Sample: 08/25/2011 08:30 (EDT)

Water Temperature: 78.4° F Air Temperature: 79.3° F

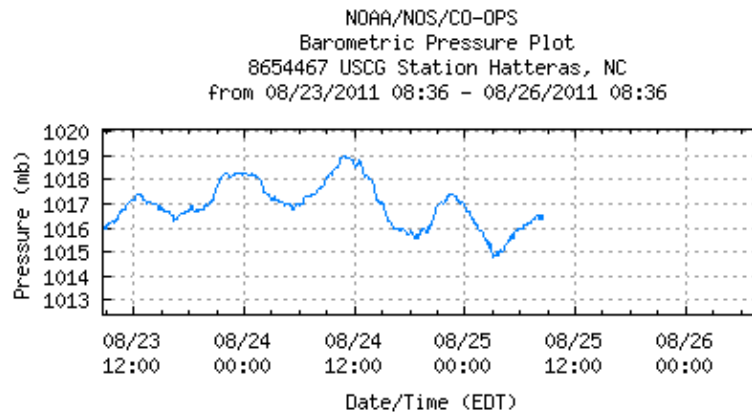
[USCG Station Hatteras, NC - Return to List](#)



Last Observed Sample: 08/25/2011 08:30 (EDT)

Wind Speed: 3 knots Gusts: 3 knots Direction: 115° T

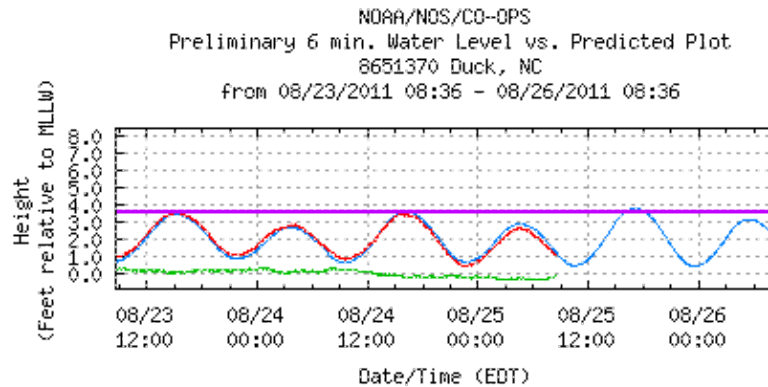
[USCG Station Hatteras, NC - Return to List](#)



Last Observed Sample: 08/25/2011 08:30 (EDT)

Barometric Pressure: 1016.4 mb

[Duck, NC - Return to List](#)

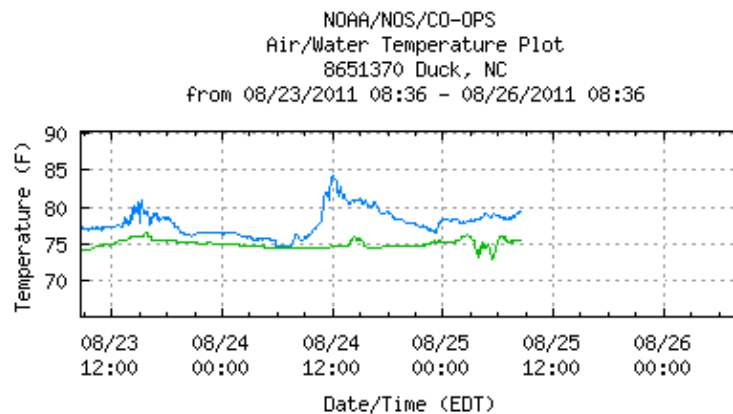


Last Observed Sample: 08/25/2011 08:30 (EDT)

Relative to MLLW: **Observed: 1.12 ft.** **Predicted: 1.23 ft.** **Residual: -0.11 ft.**

Historical Maximum Water Level: Aug 30 1999, 3.23 ft. above MHHW

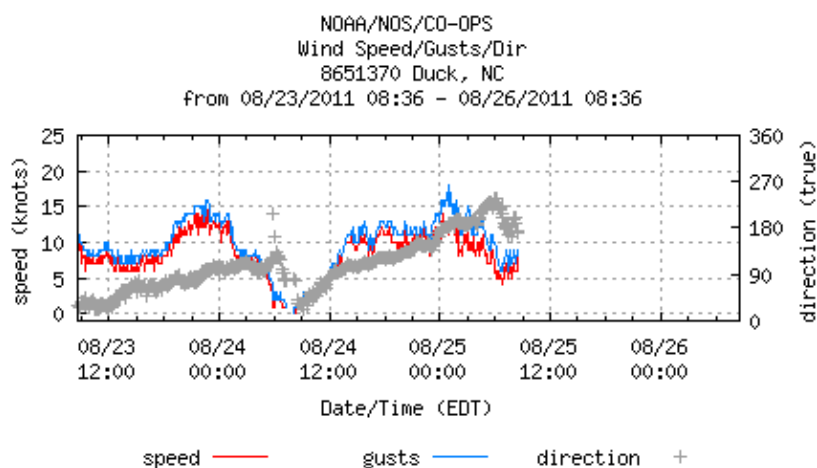
[Duck, NC - Return to List](#)



Last Observed Sample: 08/25/2011 08:30 (EDT)

Water Temperature: 75.4° F **Air Temperature: 79.3° F**

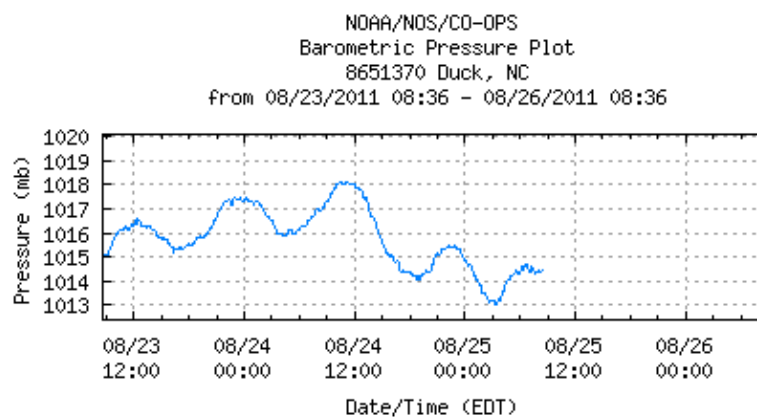
Duck, NC - Return to List



Last Observed Sample: 08/25/2011 08:30 (EDT)

Wind Speed: 8 knots Gusts: 9 knots Direction: 170° T

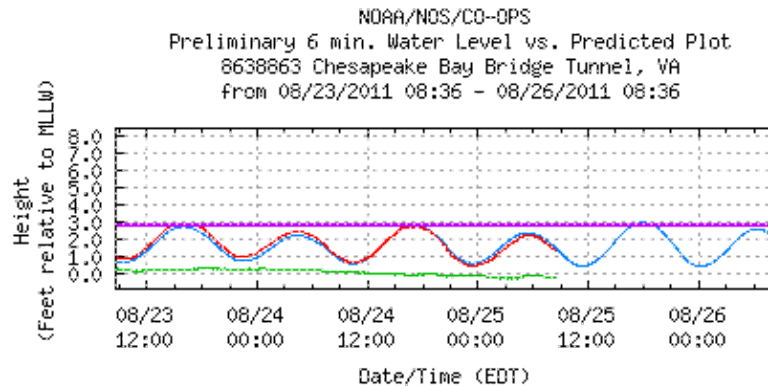
Duck, NC - Return to List



Last Observed Sample: 08/25/2011 08:30 (EDT)

Barometric Pressure: 1014.5 mb

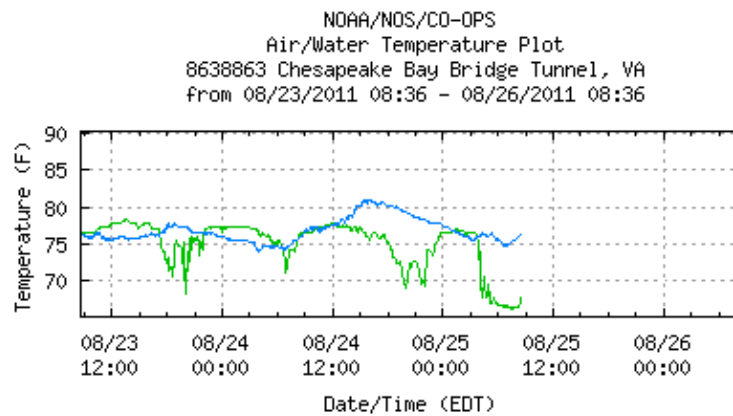
[Chesapeake Bay Bridge Tunnel, VA - Return to List](#)



Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/25/2011 08:30 (EDT)
Relative to MLLW: **Observed: 1.30 ft. Predicted: 1.47 ft. Residual: -0.17 ft.**
Historical Maximum Water Level: Feb 5 1998, 3.68 ft. above MHHW

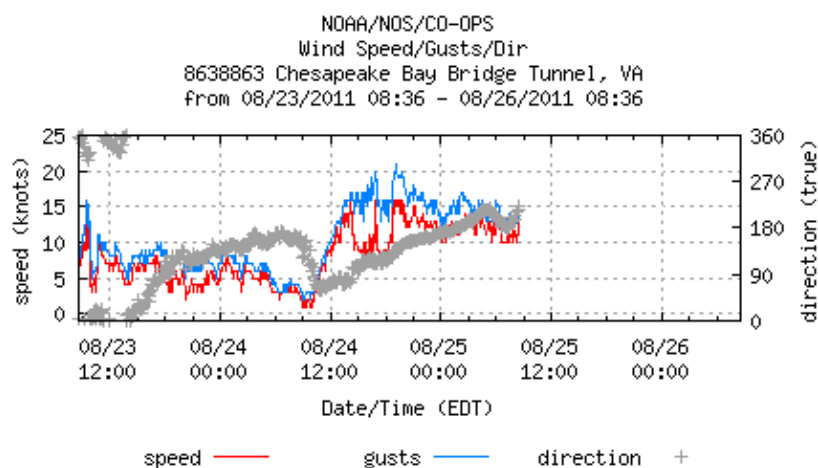
[Chesapeake Bay Bridge Tunnel, VA - Return to List](#)



water temp. — air temp —

Last Observed Sample: 08/25/2011 08:30 (EDT)
Water Temperature: 67.8° F Air Temperature: 76.3° F

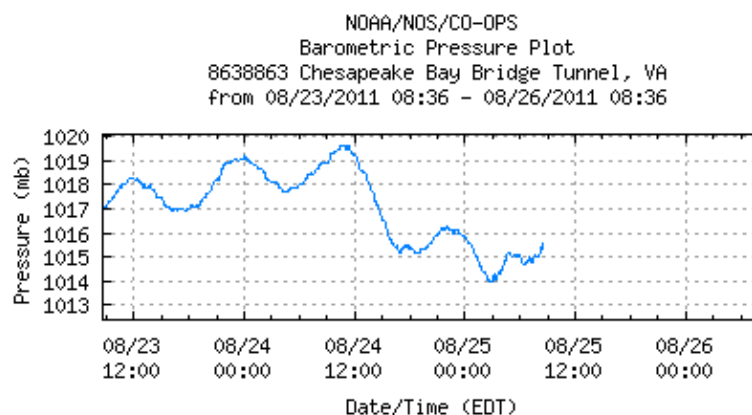
[Chesapeake Bay Bridge Tunnel, VA - Return to List](#)



Last Observed Sample: 08/25/2011 08:30 (EDT)

Wind Speed: 13 knots Gusts: 14 knots Direction: 215° T

[Chesapeake Bay Bridge Tunnel, VA - Return to List](#)



Last Observed Sample: 08/25/2011 08:30 (EDT)

Barometric Pressure: 1015.3 mb

Hurricane IRENE QuickLook, POSTED 07:00 EDT 08/25/2011

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce